Multi-axis Truss Robot Market to Reach USD 3.5 Billion by 2036

Subhead: USD 1.7 billion in 2026 | USD 3.5 billion by 2036 | 8.1% CAGR

ROCKVILLE, Md., August 26, 2026 — The global multi-axis truss robot market is estimated at **USD 1.7 billion in 2026**, and Fact.MR projects it to reach **USD 3.5 billion by 2036**, expanding at a **CAGR of 8.1% from 2026 to 2036**, according to Fact.MR analysis.

The market was valued at **USD 1.6 billion in 2025**, according to Fact.MR. Demand is rising as manufacturers seek greater automation, precision, speed, and flexibility. Automotive, aerospace, and electronics manufacturers are adopting robotic systems for tasks such as material handling, assembly, welding, painting, and inspection.

Industry 4.0 and smart factory adoption are also supporting demand. Multi-axis truss robots can provide high reach, coordinated movement, and precision for complex production tasks. However, Fact.MR notes that high capital investment and integration complexity can affect adoption in some regions.

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Industry Evidence and Market Context

Fact.MR's report cites industry sources including FANUC Corporation, Felsomat GmbH, Güdel Group AG, Liebherr-International AG, and SIASUN Robot & Automation Co., Ltd. in its bibliography for research on multi-axis robotics and industrial automation. FANUC's cited 2023 industry material addresses Industry 4.0 and multi-axis robotics, while Felsomat's 2023 material covers advances in multi-axis truss robots for automotive manufacturing. Fact.MR also cites 2026 industry updates from Machinery & Manufacturing and UIC covering robotics trends and digital automatic operations.

Key Market Numbers

Metric	Value
Market value, 2025	**USD 1.6 billion**
Market value, 2026	**USD 1.7 billion**
Forecast value, 2036	**USD 3.5 billion**
CAGR, 2026–2036	**8.1%**
Absolute dollar growth, 2026–2036	**USD 1.8 billion**
Four-axis share, 2026	**40%**
Automobile manufacturing share, 2026	**45%**

Source: Fact.MR analysis.

Segment Breakdown

Axis configuration: Four-axis robots are expected to account for **40% of market share by 2026**, according to Fact.MR. Their balance of cost, complexity, precision, and functionality supports use across manufacturing and assembly operations.

Application: Automobile manufacturing is projected to hold **45% of market share by 2026**, according to Fact.MR. Robots are used for assembly, welding, painting, inspection, and other production activities.

Industrial use: The report covers applications across automobile manufacturing, metallurgy casting, electronic communications, aerospace, military research, and other areas.

Deployment: The report analyzes OEM-integrated and aftermarket installation models.

Country Growth Outlook

Country	CAGR, 2026–2036
China	**10.9%**
India	**10.1%**
Germany	**9.3%**
Brazil	**8.5%**
USA	**7.7%**

Source: Fact.MR analysis based on its proprietary forecasting model and primary research.

China records the highest CAGR among the countries listed, at **10.9%**, supported by manufacturing automation and robotics adoption, according to Fact.MR. India follows at **10.1%**, while Germany is projected to grow at **9.3%**. Brazil and the USA are forecast to expand at **8.5%** and **7.7%**, respectively.

Competitive Landscape

Fact.MR describes the market as moderately concentrated. Key companies profiled include **Felsomat GmbH, Liebherr-International AG, Güdel Group AG, FLT Automation GmbH, FANUC Corporation, SIASUN Robot & Automation Co., Ltd., Qingdao Kingerobot Co., Ltd., LECN, Anhui Hengtong Group Co., Ltd., and STON Robot**.

The provided Fact.MR page does **not disclose individual revenue or market-share percentages for these companies**. It states that these companies capture a substantial share of revenue collectively. Buyer decisions are influenced by technology, system integration, precision, compatibility, service networks, cost, and after-sales support.

Analyst View

Shambhu Nath Jha, Principal Consultant at Fact.MR, stated: **"The growing demand for high precision and flexibility in manufacturing processes, coupled with the adoption of Industry 4.0, is expected to continue driving the growth of the multi-axis truss robot market."**

The page also cites Philippe Beaulieu, Chief Executive Officer of Mecademic Industrial Robotics, on broader automation growth and micro-automation solutions.

Frequently Asked Questions

How large is the multi-axis truss robot market in 2026?
Fact.MR estimates the global market at **USD 1.7 billion in 2026**.

What will the multi-axis truss robot market be worth by 2036?
The market is projected to reach **USD 3.5 billion by 2036**, according to Fact.MR.

What is the CAGR of the multi-axis truss robot market?
Fact.MR projects a **8.1% CAGR from 2026 to 2036**.

Which application is expected to dominate the market?
Automobile manufacturing is expected to account for **45% of market share in 2026**, according to Fact.MR.

Which country has the highest projected CAGR?
China leads the listed countries with a projected **10.9% CAGR from 2026 to 2036**, according to Fact.MR.

About Fact.MR

Fact.MR is a market research and consulting company providing industry intelligence, market forecasts, competitive analysis, and strategic insights across global markets. Its research uses primary interviews, desk research, market modeling, and expert validation.